Refine Search

Your wildcard search against 10000 terms has yielded the results below.

Your result set for the last L# is incomplete.

The probable cause is use of unlimited truncation. Revise your search strategy to use limited truncation.

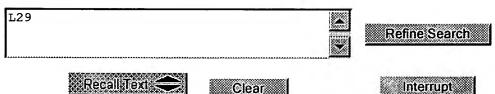
Search Results -

| Terms | Documents |
|--|-----------|
| L28 and (portab\$ or hand\$ or light\$) and reason\$ and (information\$ with fusion\$) | 1 |

Database:

US Pre-Grant Publication Full-Text Database
US Patents Full-Text Database
US OCR Full-Text Database
EPO Abstracts Database
JPO Abstracts Database
Derwent World Patents Index
IBM Technical Disclosure Bulletins

Search:



Search History

DATE: Monday, May 22, 2006 Printable Copy Create Case

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DB=USPT; THES=ASSIGNEE; PLUR=YES; OP=OR

L29 L28 and (portab\$ or hand\$ or light\$) and reason\$ and

1 <u>L29</u>

(information\$ with fusion\$) L28 6434512.pn. 1 L28 DB=PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD; THES=ASSIGNEE; PLUR=YES; OP=OR L25 and (portab\$ or hand\$ or light\$) and reason\$ and L27 1 L27 (information\$ with fusion\$) L25 and portab\$ and reason\$ and (information\$ with L26 fusion\$) and (realtime or "real-time" or (real\$ adj 0 L26 time)) L25 | 121 or 122 or 123 or 124 145 L25 DB=USPT; THES=ASSIGNEE; PLUR=YES; OP=OR (6301514 | 6128560 | 5592386 | 4961575 | 4644351 | 5925817 | 5331431 | 5445347 | 5543802 | 5535428 | 5481255 | 5924695 | 5236200 | 5751245 | 4951039 | 6297742 | 6434481 | 5173688 | 5142279 | 5754965 | 5942969 | 6024655 | 5337013 | 5400018 | 5481906 | 5446678 | 6023241 | 5495344 | 5638383 | 6157894 | 57 L24 5452356 | 5491785 | 6003808 | 5933100 | 5517419 | 6084542 | 4415065 | 6230089 | 6208948 | 5679075 | 5613212 | 5239468 | 5929609 | 6381537 | 6415224 | 5508695 | 5566091 | 5045850 | 4496149 | 5661666 | 5184312 | 5648898 | 6144903 | 5646629 | 6006146 | 6385536 | 5060156)![PN] DB=PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD; THES=ASSIGNEE; PLUR=YES; OP=OR ('JP2001259105A'| '6320495'| 'JP02004176887A'| '6434512'| '5942969'| 'JP02001259105A'| '6219597'| <u>L23</u> 'JP2004176887A'| '6515621'| '6278938') 16 L23 [ABPN1,NRPN,PN,TBAN,WKU] ('JP2001259105A'| '6320495'| 'JP02004176887A'| L22 '6434512'| '5942969'| 'JP02001259105A'| '6219597'| 74 L22 'JP2004176887A'| '6515621'| '6278938')[URPN] L21 L1 or 15 or 16 or 117 or 118 10 L21 L20 6219597.pn. or 6434512.pn. 4 L20 DB=PGPB; THES=ASSIGNEE; PLUR=YES; OP=OR

| <u>L19</u> | 2004176887 | 0 | <u>L19</u> |
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| THES | =ASSIGNEE; PLUR=YES; OP=OR | | |
| <u>L18</u> | 2004176887 | 2 | <u>L18</u> |
| DB | =PGPB; THES=ASSIGNEE; PLUR=YES; OP=OR | | |
| <u>L17</u> | 20030377881 | 0 | <u>L17</u> |
| DB | =PGPB,USPT,USOC,EPAB,JPAB,DWPI,TDBD; | | |
| | =ASSIGNEE; PLUR=YES; OP=OR | | |
| <u>L16</u> | L10 and L14 | 0 | <u>L16</u> |
| <u>L15</u> | L14 not L10 | 6 | <u>L15</u> |
| <u>L14</u> | L13 and (flight\$ and (vehicle or air\$)) | 6 | <u>L14</u> |
| <u>L13</u> | L12 and (diagnos\$ with fault\$) | 13 | <u>L13</u> |
| | portab\$ and reason\$ and (information\$ with fusion\$) | | |
| <u>L12</u> | and (realtime or "real-time" or (real\$ adj time)) and @ad<=20040105 | 89 | <u>L12</u> |
| <u>L11</u> | L10 and (flight\$ and (vehicle or air\$)) | 0 | <u>L11</u> |
| <u>L10</u> | L9 and (diagnos\$ with fault\$) | 6 | <u>L10</u> |
| <u>L9</u> | portab\$ and reason\$ and (information\$ with fusion\$) and (realtime or "real-time" or (real\$ adj time)) and @pd<=20040105 | 55 | <u>L9</u> |
| <u>L8</u> | portab\$ and (("on-board" or onboard) with reason\$) and (information\$ with fusion\$) and @pd<=20040105 | 0 | <u>L8</u> |
| <u>L7</u> | portab\$ and (("on-board" or onboard) with reason\$) and (information\$ with fusion\$) and @ad<=20040105 | 1 | <u>L7</u> |
| <u>L6</u> | 2001259105 | 2 | <u>L6</u> |
| DB | =USPT; THES=ASSIGNEE; PLUR=YES; OP=OR | | |
| <u>L5</u> | 5942969.pn. or 6278938.pn. or 6515621.pn. or 6320495.pn. | 4 | <u>L5</u> |
| <u>L4</u> | L1 and (portab\$ or hand\$ or light\$) | 2 | <u>L4</u> |
| <u>L3</u> | L1 (portab\$ or hand\$ or light\$) | 2415005 | <u>L3</u> |
| DB | =PGPB,USPT; THES=ASSIGNEE; PLUR=YES; OP=0 | OR | |
| <u>L2</u> | L1 and ("real-time" or (real adj time) or realtime) | 2 | <u>L2</u> |
| L1 | 6219597.pn, or 6434512.pn | 2 | I 1 |

Refine Search

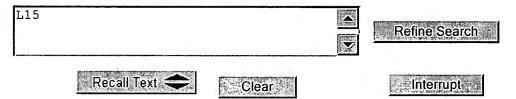
Search Results -

| Terms | Documents | | |
|------------|-----------|--|--|
| 2004176887 | 0 | | |

Database:

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US Patents Full-Text Database
US OCR Full-Text Database
EPO Abstracts Database
JPO Abstracts Database
Derwent World Patents Index
IBM Technical Disclosure Bulletins

Search:



Search History

DATE: Monday, May 22, 2006 Printable Copy Create Case

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| DB=PGPB; THES=ASSIGNEE; PLUR=YES; OP=OR <u>L15</u> 2004176887 | 0 <u>L15</u> |
| DB=PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD; THES=ASSIGNEE; PLUR=YES; OP=OR | |
| <u>L14</u> 2004176887 <i>DB=PGPB; THES=ASSIGNEE; PLUR=YES; OP=OR</i> | 2 <u>L14</u> |
| <u>L13</u> 20030377881 | 0 <u>L13</u> |

| DB⁼ | =PGPB,USPT,USOC,EPAB,JPAB,DWPI,TDBD; | | |
|------------|--|----|-------------|
| THES= | =ASSIGNEE; PLUR=YES; OP=OR | | |
| <u>L12</u> | l6 and l10 | 0 | <u>L12</u> |
| <u>L11</u> | L10 not 16 | 6 | <u>L11</u> |
| <u>L10</u> | L9 and (flight\$ and (vehicle or air\$)) | 6 | <u>L10</u> |
| <u>L9</u> | L8 and (diagnos\$ with fault\$) | 13 | <u>L9</u> |
| <u>L8</u> | portab\$ and reason\$ and (information\$ with fusion\$) and (realtime or "real-time" or (real\$ adj time)) and @ad<=20040105 | 89 | <u>L8</u> |
| <u>L7</u> | L6 and (flight\$ and (vehicle or air\$)) | 0 | <u>L7</u> |
| <u>L6</u> | L5 and (diagnos\$ with fault\$) | 6 | <u>L6</u> |
| <u>L5</u> | portab\$ and reason\$ and (information\$ with fusion\$) and (realtime or "real-time" or (real\$ adj time)) and @pd<=20040105 | 55 | <u>L5</u> |
| <u>L4</u> | portab\$ and (("on-board" or onboard) with reason\$) and (information\$ with fusion\$) and @pd<=20040105 | 0 | <u>L4</u> |
| <u>L3</u> | portab\$ and (("on-board" or onboard) with reason\$) and (information\$ with fusion\$) and @ad<=20040105 | 1 | <u>L3</u> · |
| <u>L2</u> | 2001259105 | 2 | <u>L2</u> |
| DB= | =USPT; THES=ASSIGNEE; PLUR=YES; OP=OR | | |
| <u>L1</u> | 5942969.pn. or 6278938.pn. or 6515621.pn. or 6320495.pn. | 4 | <u>L1</u> |

END OF SEARCH HISTORY

10/750868

Hit List

First Hit Your wildcard search against 10000 terms has yielded the results below.

Your result set for the last L# is incomplete.

The probable cause is use of unlimited truncation. Revise your search strategy to use limited truncation.

Clear Generate Collection Print Fwd Refs Bkwd Refs
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Search Results - Record(s) 1 through 6 of 6 returned.

☐ 1. Document ID: US 20050149238 A1

Using default format because multiple data bases are involved.

L10: Entry 1 of 6

File: PGPB

Jul 7, 2005

PGPUB-DOCUMENT-NUMBER: 20050149238

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20050149238 A1

TITLE: System and method for monitoring and reporting $\underline{aircraft}$ quick access

recorder data

PUBLICATION-DATE: July 7, 2005

INVENTOR-INFORMATION:

NAME CITY STATE COUNTRY

Stefani, Rolf West River MD US Scherbina, Alexander Annapolis MD US

US-CL-CURRENT: 701/33; 701/29, 701/35

Full Title Citation Front Review Classification Date Reference Sequences Attachments Claims KMC Draw D

2. Document ID: US 7020701 B1

L10: Entry 2 of 6

File: USPT

Mar 28, 2006

US-PAT-NO: 7020701

DOCUMENT-IDENTIFIER: US 7020701 B1

TITLE: Method for collecting and processing data using internetworked wireless integrated network sensors (WINS)



□ 3. Document ID: US 6859831 B1

L10: Entry 3 of 6

File: USPT

Feb 22, 2005

US-PAT-NO: 6859831

DOCUMENT-IDENTIFIER: US 6859831 B1

TITLE: Method and apparatus for internetworked wireless integrated network sensor

(WINS) nodes

Full Title Citation Front Review Classification Date Reference Sequences Attachments Claims KMC Draw D

☐ 4. Document ID: US 6832251 B1

L10: Entry 4 of 6

File: USPT

Dec 14, 2004

US-PAT-NO: 6832251

DOCUMENT-IDENTIFIER: US 6832251 B1

TITLE: Method and apparatus for distributed signal processing among internetworked wireless integrated network sensors (WINS)

Full Title Citation Front Review Classification Date Reference Sequences Attachments Claims KWIC Draw D

□ 5. Document ID: US 6826607 B1

L10: Entry 5 of 6

File: USPT

Nov 30, 2004

US-PAT-NO: 6826607

DOCUMENT-IDENTIFIER: US 6826607 B1

TITLE: Apparatus for internetworked hybrid wireless integrated network sensors

(WINS)

Full Title Citation Front Review Classification Date Reference Sequences Attackments Claims KWIC Draw, D

□ 6. Document ID: US 6735630 B1

L10: Entry 6 of 6

File: USPT

May 11, 2004

US-PAT-NO: 6735630

DOCUMENT-IDENTIFIER: US 6735630 B1

TITLE: Method for collecting data using compact internetworked wireless integrated

network sensors (WINS)

| Full | Title Citation | Front Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Drawu |
|-------|----------------|--------------|---|------|-----------|-----------|-------------|--------|--------|-------|
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Record Display Form Page 1 of 5

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L10: Entry 2 of 6

File: USPT

Mar 28, 2006

US-PAT-NO: 7020701

DOCUMENT-IDENTIFIER: US 7020701 B1

TITLE: Method for collecting and processing data using internetworked wireless

integrated network sensors (WINS)

DATE-ISSUED: March 28, 2006

INVENTOR-INFORMATION:

| NAME | CITY | STATE | ZIP CODE | COUNTRY |
|---------------------|-------------|-------|----------|---------|
| Gelvin; David C. | Escondido | CA | | US |
| Girod; Lewis D. | Los Angeles | CA | | US |
| Kaiser; William J. | Los Angeles | CA | | US |
| Merrill; William M. | Los Angeles | CA | | US |
| Newberg; Fredric | San Diego | CA | | US |
| Pottie; Gregory J. | Los Angeles | CA | | US |
| Sipos; Anton I. | Los Angeles | CA | | US |
| Vardhan; Sandeep | Walnut | CA | | US |

ASSIGNEE-INFORMATION:

NAME CITY STATE ZIP CODE COUNTRY TYPE CODE

Sensoria Corporation San Diego CA US 02

[PALM] APPL-NO: 09/684565 DATE FILED: October 4, 2000

RELATED-US-APPL-DATA:

us-provisional-application US 60158013 00 19991006 us-provisional-application US 60170865 00 19991215 us-provisional-application US 60208397 00 20000530 us-provisional-application US 60210296 00 20000608

INT-CL-ISSUED:

TYPE IPC DATE IPC-OLD IPCP G06F15/173 20060101 G06F015/173 IPCS G06F9/44 20060101 G06F009/44 IPCS H04L12/28 20060101 H04L012/28 20060101 H01L025/00 IPCS H01L25/00

INT-CL-CURRENT:

TYPE IPC DATE CIPP G06 F 15/173 20060101 CIPS <u>G06</u> <u>F</u> <u>9/44</u> 20060101 Record Display Form Page 2 of 5

CIPS <u>H01</u> <u>L</u> <u>25/00</u> 20060101 CIPS <u>H04</u> <u>L</u> <u>12/28</u> 20060101

US-CL-ISSUED: 709/224; 370/390, 250/332, 717/100 US-CL-CURRENT: 709/224; 250/332, 370/390, 717/100

FIELD-OF-CLASSIFICATION-SEARCH: 709/201, 709/218, 709/224, 713/201, 719/313, 370/230, 370/390, 370/351, 370/228, 340/539.12, 340/539.19, 380/229, 707/4,

250/332, 717/100

See application file for complete search history.

PRIOR-ART-DISCLOSED:

U.S. PATENT DOCUMENTS

Search Selected Search ALL: Clear :

| PAT-NO | ISSUE-DATE | PATENTEE-NAME | US-CL |
|----------------|----------------|----------------------|----------|
| 4406016 | September 1983 | Abrams et al. | 455/19 |
| <u>4520674</u> | June 1985 | Canada et al. | 73/660 |
| 4649524 | March 1987 | Vance | 367/13 |
| 4812820 | March 1989 | Chatwin | 340/518 |
| 4855713 | August 1989 | Brunius | 340/506 |
| 4951029 | August 1990 | Severson | 340/506 |
| 5241542 | August 1993 | Natarajan et al. | 370/95.3 |
| 5247564 | September 1993 | Zicker | 379/40 |
| 5295154 | March 1994 | Meier et al. | 375/1 |
| <u>5428636</u> | June 1995 | Meier | 375/202 |
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| 5534697 | July 1996 | Creekmore et al. | 250/332 |
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| 5563948 | October 1996 | Diehl et al. | 380/229 |
| 5659195 | August 1997 | Kaiser et al. | 257/415 |
| 5726911 | March 1998 | Canada et al. | 364/550 |
| 5732074 | March 1998 · | Spaur et al. | 370/313 |
| 5737529 | April 1998 | Dolin, Jr. et al. | |
| 5745759 | April 1998 | Hayden et al. | |
| 5760530 | June 1998 | Kolesar | |
| 5794164 | August 1998 | Beckert et al. | |
| <u>5852351</u> | December 1998 | Canada et al. | 318/490 |
| 5854994 | December 1998 | Canada et al. | 702/56 |
| | | | |

| 5907491 | May 1999 | Canada et al. | 364/468.15 |
|----------------|----------------|------------------|------------|
| 5937163 | August 1999 | Lee et al. | 709/218 |
| <u>5959529</u> | September 1999 | Kail, IV | 340/539.12 |
| <u>5978578</u> | November 1999 | Azarya et al. | 717/100 |
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| 6078269 | June 2000 | Markwell et al. | 340/825.5 |
| 6144905 | November 2000 | Gannon | |
| 6145082 | November 2000 | Gannon et al. | |
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| 6202008 | March 2001 | Beckert et al. | |
| 6208247 | March 2001 | Agre et al. | 340/539.19 |
| 6246935 | June 2001 | Buckley | |
| <u>6389483</u> | May 2002 | Larsson | 719/313 |
| 6414955 | July 2002 | Clare et al. | 370/390 |
| 6477143 | November 2002 | Ginossar | 370/230 |
| 6499027 | December 2002 | Weinberger | 707/4 |
| 6504631 | January 2003 | Barry et al. | 398/83 |
| 6550012 | April 2003 | Villa et al. | 713/201 |
| 6661773 | December 2003 | Pelissier et al. | 370/228 |
| <u>6735630</u> | May 2004 | Gelvin et al. | 709/224 |
| <u>6859831</u> | February 2005 | Gelvin et al. | 709/224 |
| 9917477 | April 1999 | | |
| 0054237 | September 2000 | | |

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| FOREIGN-PAT-NO | PUBN-DATE | COUNTRY | CLASS |
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| 19743137 | April 1999 | · DE | |
| 0814393 | December 1997 | EP | |

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- C. David Young, "USAP: A Unifying Dynamic Distributed Multichannel TDMA Slot Assignment Protocol", Milcom 96 Conference Proceedings, Oct. 22-24, 1996, pp. 235-239. cited by other
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- Michael J. Dong, et al. "Low Power Signal Processing Architectures for Network Microsensors"; University of California, Los Angeles, ISLPED 97, International Symposium on Low Power Electronics and Design, Jan. 1998, pp. 1-5. cited by other K. Sohrabi, J. Gao, V. Ailawadhi, G. Pottie, "A Self-Organizing Wireless Sensor Network," Proc. 37.sup.th Allerton Conf. On Comm., Control, and Computing, Monticello, IL, Sep. 1999. cited by other
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Lohle, H., et al., "Bordermaster 2000- An Advanced Border Surveillance System", Electrical Communication, Alcatel. Brussels, BE 153-158 (1994). cited by other

ART-UNIT: 2154

PRIMARY-EXAMINER: Follansbee; John

ASSISTANT-EXAMINER: Lee; Philip

ATTY-AGENT-FIRM: Courtney Staniford & Gregory LLP

SPIE, SPIE, Bellingham, VA 3673:11-18 (1999). cited by other

ABSTRACT:

The Wireless Integrated Network Sensor Next Generation (WINS NG) nodes provide distributed network and Internet access to sensors, controls, and processors that are deeply embedded in equipment, facilities, and the environment. The WINS NG network is a new monitoring and control capability for applications in transportation, manufacturing, health care, environmental monitoring, and safety and security. The WINS NG nodes combine microsensor technology, low power distributed signal processing, low power computation, and low power, low cost wireless and/or wired networking capability in a compact system. The WINS NG networks provide sensing, local control, remote reconfigurability, and embedded intelligent systems in structures, materials, and environments.

62 Claims, 53 Drawing figures

Previous Doc Next Doc Go to Doc#

First Hit Fwd Refs

Previous Doc Next Doc Go to Doc#

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L6: Entry 5 of 6

File: USPT

Oct 15, 1996

US-PAT-NO: 5566092

DOCUMENT-IDENTIFIER: US 5566092 A

TITLE: Machine fault diagnostics system and method

DATE-ISSUED: October 15, 1996

INVENTOR-INFORMATION:

| NAME | CITY | STATE | ZIP CODE | COUNTRY |
|-------------------|-------------|-------|----------|---------|
| Wang; Hsu-Pin | Tallahassee | FL | | |
| Huang; Hsin-Hao | Kaohsiung | | | TW |
| Knapp; Gerald M. | Baton Rouge | LA | | |
| Lin; Chang-Ching | Tallahassee | FL | | |
| Lin; Shui-Shun | Tallahassee | FL | | |
| Spoerre; Julie K. | Tallahassee | FL | | |

ASSIGNEE-INFORMATION:

| NAME | CITY | STATE | ZIP CODE | COUNTRY | TYPE CODE |
|------------------|--------|------------|----------|---------|-----------|
| Caterpillar Inc. | Peoria | $_{ m IL}$ | | | 02 |

APPL-NO: 08/176482 [PALM]
DATE FILED: December 30, 1993

PARENT-CASE:

CROSS-REFERENCE TO CO-PENDING APPLICATIONS The following applications are assigned to the assignee of the present application: U.S. Patent Application entitled "Supervised Training of a Neural Network," Ser. No. 08/176,458, naming as inventors Hsin-Hoa Huang, Shui-Shun Lin, Gerald M. Knapp, and Hsu-Pin Wang, filed concurrently herewith, pending the disclosure of which is hereby incorporated by reference in its entirety. U.S. Patent Application entitled "Machine Performance Monitoring and Fault Classification Using an Exponential Weighted Moving Average Scheme," Ser. No. 08/176,456, naming as inventors Julie M. Spoerre, Chang-Ching Lin, and Hsu-Pin Wang, filed concurrently herewith, pending the disclosure of which is hereby incorporated by reference in its entirety.

INT-CL-ISSUED: [06] <u>G01</u> <u>B</u> <u>7/00</u>

US-CL-ISSUED: 364/551.02; 364/131, 364/474.01, 364/474.11, 364/474.16, 395/904,

395/912

US-CL-CURRENT: <u>702/185</u>; <u>700/159</u>, <u>700/169</u>, <u>700/174</u>, 700/2, <u>706/904</u>, <u>706/912</u>

FIELD-OF-CLASSIFICATION-SEARCH: 364/131, 364/164, 364/474.01, 364/474.11, 364/474.15-474.17, 364/505, 364/506, 364/550, 364/551.01, 364/551.02, 364/579, 364/578, 395/3, 395/11, 395/21, 395/22, 395/50, 395/66, 395/75, 395/77, 395/82-84, 395/88, 395/93, 395/97, 395/900, 395/903, 395/904, 395/906, 395/907, 395/909, 395/911, 395/912, 395/914

See application file for complete search history.

PRIOR-ART-DISCLOSED:

WO9213306

U.S. PATENT DOCUMENTS

| | | Search | n Selected | Search ALL | Clear | |
|-----------|----------------|---------------|------------|----------------|---------|------------|
| | | | | | | |
| | PAT-NO | ISSUE-DATE | | PATENTEE-NAME | | US-CL |
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| | 4839823 | June 1989 | | Matsumoto | | 395/907 |
| | 4901218 | February 1990 | • | Cornwell | | 364/131 |
| | 4914708 | April 1990 | | Carpenter et a | ıl. | |
| | 5040214 | August 1991 | | Grossberg et a | 1. | |
| | 5121467 | June 1992 | | Skeirik | | 395/22 |
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| | 5142590 | August 1992 | | Carpenter et a | 1. | |
| | <u>5157738</u> | October 1992 | | Carpenter et a | 1. | |
| | 5214715 | May 1993 | | Carpenter et a | 1. | |
| | 5249257 | September 199 | 3 | Akahori et al. | | 395/3 |
| | 5303331 | April 1994 | | Namba | | 395/906 |
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| | 5402519 | March 1995 | | Inoue et al. | | 395/22 |
| | 5402520 | March 1995 | | Schnitta | | 395/21 |
| | 5414645 | May 1995 | | Hirano | | 364/551.01 |
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| | | | FOREIGN | PATENT DOCUMEN | TS | |
| | | | | | | |
| | EIGN-PAT-NO | | PUBN-DAT | - - | COUNTRY | CLASS |
| 0244483B1 | | | July 199 | 92 | EP | |

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Huang et al., Tandem Artmap Neural Networks for Feedback Process Control: A Welding Example, Nov. 8-13, 1992, PED-vol. 57, Neural Networks in Manufacturing and Robotics, ASME, pp. 11-22.

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1987.

Carpenter et al., "ARTMAP: Supervised <u>Real-Time</u> Learning and Classification of Nonstationary Data by a Self-Organizing Neural Network," Neural Networks, vol. 4, pp. 565-588, 1991.

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Spoerre, Julie K., "Machine Performance Monitoring and Fault Classification Using an Exponentially Weighted Moving Average Scheme, "Thesis, May 1993.

ART-UNIT: 244

PRIMARY-EXAMINER: Voeltz; Emanuel T.

ASSISTANT-EXAMINER: Wachsman; Hal P.

ATTY-AGENT-FIRM: Sokohl; Robert

ABSTRACT:

The invention provides a machine <u>fault diagnostic</u> system to help ensure effective equipment maintenance. The major technique used for <u>fault diagnostics</u> is a <u>fault diagnostic</u> network (FDN) which is based on a modified ARTMAP neural network architecture. A hypothesis and test procedure based on fuzzy logic and physical bearing models is disclosed to operate with the FDN for detecting faults that cannot be recognized by the FDN and for analyzing complex machine conditions. The procedure described herein is able to provide accurate <u>fault diagnosis</u> for both one and multiple—<u>fault</u> conditions. Furthermore, a transputer—based parallel processing technique is used in which the FDN is implemented on a network of four T800-25 transputers.

25 Claims, 28 Drawing figures

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Search Results - Record(s) 1 through 6 of 6 returned.

□ 1. Document ID: US 20030158587 A1

Using default format because multiple data bases are involved.

L6: Entry 1 of 6

File: PGPB

Aug 21, 2003

PGPUB-DOCUMENT-NUMBER: 20030158587

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20030158587 A1

TITLE: Adaptive method and apparatus for forecasting and controlling neurological

disturbances under a multi-level control

PUBLICATION-DATE: August 21, 2003

INVENTOR-INFORMATION:

NAME CITY STATE COUNTRY Esteller, Rosana Marietta GA US Echauz, Javier Ramon Atlanta GA US Litt, Brian Merion Station PΑ US Vachtsevanos, George John Marietta US GA

US-CL-CURRENT: 607/45

| Full Title Citation Front Review Classification Date Reference Sequences Attachments Claims KWC Dr. |
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□ 2. Document ID: US 20020103512 A1

L6: Entry 2 of 6

File: PGPB

Aug 1, 2002

PGPUB-DOCUMENT-NUMBER: 20020103512

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20020103512 A1

TITLE: Adaptive method and apparatus for forecasting and controlling neurological

disturbances under a multi-level control

PUBLICATION-DATE: August 1, 2002

INVENTOR-INFORMATION:

| NAME | CITY | STATE | COUNTRY |
|---------------------------|----------------|-------|---------|
| Echauz, Javier Ramon | Atlanta | GA | US |
| Litt, Brian | Merion Station | PA | US |
| Esteller, Rosana | Marietta | GA | US |
| Vachtsevanos, George John | Marietta | GA | US |

US-CL-CURRENT: 607/9

| Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Drawu |
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| | 3. | Docu | ımen | t ID: | US 6594 | 4524 | B2 | | | | | |
| L6: | Entr | y 3 of | 6 | | Fi | le: [| JSPT | | , | Jul 15 | . 200 | 3 |

US-PAT-NO: 6594524

DOCUMENT-IDENTIFIER: US 6594524 B2

TITLE: Adaptive method and apparatus for forecasting and controlling neurological disturbances under a multi-level control

| Full | Title | Citation | Front | Review | Classification | Date | Reference | SHARRAS | Allacunents | Claims | KWIC | Draw |
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☐ 4. Document ID: US 6546785 B1

L6: Entry 4 of 6

File: USPT

Apr 15, 2003

US-PAT-NO: 6546785

DOCUMENT-IDENTIFIER: US 6546785 B1

TITLE: System and method for dynamic lubrication adjustment for a lubrication

analysis system

| KWIC D |
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☐ 5. Document ID: US 5566092 A

L6: Entry 5 of 6

File: USPT

Oct 15, 1996

US-PAT-NO: 5566092

DOCUMENT-IDENTIFIER: US 5566092 A

TITLE: Machine <u>fault diagnostics</u> system and method



☐ 6. Document ID: US 4251688 A

L6: Entry 6 of 6

File: USPT

Feb 17, 1981

US-PAT-NO: 4251688

DOCUMENT-IDENTIFIER: US 4251688 A

TITLE: Audio-digital processing system for demultiplexing stereophonic/quadriphonic

input audio signals into 4-to-72 output audio signals

| Full T | Fitle │ Citation | Front | Review C | lassification | Date | Reference | Sen | Jegjeje | f ore. | hinents | Claims | KWIC | Draw D |
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L3: Entry 1 of 1

File: PGPB

Jul 7, 2005

PGPUB-DOCUMENT-NUMBER: 20050149238

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20050149238 A1

TITLE: System and method for monitoring and reporting aircraft quick access

recorder data

PUBLICATION-DATE: July 7, 2005

INVENTOR-INFORMATION:

NAME

CITY

STATE COUNTRY

Stefani, Rolf

West River

US

Scherbina, Alexander

Annapolis

MD MD

US

ASSIGNEE-INFORMATION:

NAME

CITY

STATE

COUNTRY

TYPE CODE

ARINC INC.

Annapolis

MD

US

02

APPL-NO: 10/750868 [PALM]
DATE FILED: January 5, 2004

INT-CL-PUBLISHED: [07] G06 F 19/00

US-CL-PUBLISHED: 701/033; 701/029, 701/035 US-CL-CURRENT: 701/33; 701/29, 701/35

REPRESENTATIVE-FIGURES: 1

ABSTRACT:

Systems and methods for monitoring and reporting a quick access recorder (QAR) data in real time. The system includes a QAR for recording fault information, a removable portable hardware component that stores, analyzes and displays the fault information, an onboard data communication network that enables the QAR and the portable hardware component to exchange information, and an air-ground data transmitting device for transmitting the fault information from the vehicle. The removable portable hardware component may be an Electronic Flight Bag (EFB) that hosts a QAR Manager application and communication technologies to manage and report all applications on the EFB.

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L2: Entry 1 of 2

File: JPAB

Sep 25, 2001

PUB-NO: JP02001259105A

DOCUMENT-IDENTIFIER: JP 2001259105 A

TITLE: ORIENTEERING TYPE COMMUNICATION STYLE GAME SYSTEM

PUBN-DATE: September 25, 2001

INVENTOR-INFORMATION:

NAME COUNTRY

TSUJI, SHINTARO

ASSIGNEE-INFORMATION:

NAME COUNTRY

SANRIO CO LTD

APPL-NO: JP2000079003 APPL-DATE: March 21, 2000

INT-CL (IPC): A63 B 71/06

ABSTRACT:

PROBLEM TO BE SOLVED: To provide an orienteering type communication style game system that can amuse a large number of participants without limitations on the time and area and is practicable at small cost.

SOLUTION: This orienteering type communication style game system employs mobile communication terminals 1 with an Internet connection function, a host device 4 for receiving access from the mobile communication terminals and sending indication thereto, and a plurality of checkpoints located in a game zone at intervals and provided with announcing means 6a to 6k for displaying different command addresses in the host device. With the aid of the indication, including the next questions and orienteering clues, that the host device sends to the mobile communication terminals, the participants carrying the mobile communication terminals repeat more than one process of finding their way to the next checkpoint, until the host device represents or implies the final answer.

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Aircraft condition analysis and management system

Patent number:

EP1455313

Publication date:

2004-09-08

Inventor:

KENT RENEE (US); MARTOLINI

ANTONY (US); MUNNS TOM

(US); SHEPPARD JOHN (US)

Applicant:

ARINC INC (US)

Classification:

G05B23/02; G07C5/00; G07C5/08; - international:

G05B23/02; G07C5/00; (IPC1-7):

G07C5/00

- european:

G05B23/02; G07C5/00T;

G07C5/08D

Application number: EP20040251264 20040304

Priority number(s): US20030377881 20030304

XP010515995

XP010548420

Also published as:

Cited documents:

US5400018

WO0218879

XP002284367

XP010548433

図 US2004176887 (A²

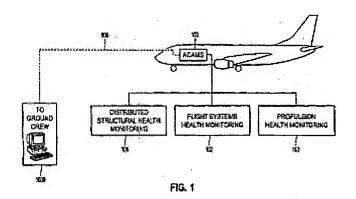
US2003216889

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Abstract of EP1455313

The invention provides a health management system and method for a complex system having at least one information source with data sources, an Aircraft Condition Analysis and Management system (ACAMS) for monitoring the data sources, an information controller for collecting and processing the data sources and a diagnostic/prognostic reasoner for fusing the collected data sources to establish current and future states and conditions of the complex system.



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L27: Entry 1 of 1

File: USPT

Aug 13, 2002

US-PAT-NO: 6434512

DOCUMENT-IDENTIFIER: US 6434512 B1

TITLE: Modular data collection and analysis system

DATE-ISSUED: August 13, 2002

INVENTOR-INFORMATION:

NAME CITY STATE ZIP CODE COUNTRY

Discenzo; Frederick M. Brecksville OH

ASSIGNEE-INFORMATION:

NAME CITY STATE ZIP CODE COUNTRY TYPE CODE

Reliance Electric Technologies, Mayfield
LLC Heights OH 02

APPL-NO: 09/410253 [PALM]
DATE FILED: September 30, 1999

PARENT-CASE:

CROSS REFERENCE TO A RELATED APPLICATION This application is a continuation-in-part of U.S. patent application Ser. No. 09/118,287, filed Jul. 17, 1998, pending; U.S. patent application Ser. No. 09/300,645, filed Apr. 27, 1999, pending, which is a continuation-in-part of U.S. patent application Ser. No. 09/054,117, filed Apr. 2, 1998, pending; U.S. patent application Ser. No. 09/257,680, filed Feb. 25, 1999, pending, which is also a continuation-in-part of U.S. patent application Ser. No. 09/054,117, filed Apr. 2, 1998, pending; and U.S. patent application Ser. No. 09/257,785, filed Feb. 22, 1999.

INT-CL-ISSUED: [07] G06 F 11/26

US-CL-ISSUED: 702/184; 714/798 US-CL-CURRENT: 702/184; 714/798

FIELD-OF-CLASSIFICATION-SEARCH: 702/183, 702/184, 702/185, 702/187, 702/188, 702/182, 714/100, 714/1, 714/25, 714/31, 714/37, 714/47, 714/48, 714/798, 700/3, 700/9, 700/19-21, 700/108, 700/109, 700/204, 700/258, 701/2, 701/24, 701/33,

701/29, 701/30

See application file for complete search history.

PRIOR-ART-DISCLOSED:

U.S. PATENT DOCUMENTS



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| PAT-NO | ISSUE-DATE | PATENTEE-NAME | US-CL |
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| 5400018 | March 1995 | Scholl et al. | 340/825.54 |
| 5481906 | January 1996 | Nagayoshi et al. | 73/116 |
| <u>5566091</u> | October 1996 | Schricker et al. | 702/34 |
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| <u>6297742</u> | October 2001 | Canada et al. | 340/635 |
| 6301514 | October 2001 | Canada et al. | 700/108 |
| | | | |

ART-UNIT: 2853

PRIMARY-EXAMINER: Hoff; Marc S.

ASSISTANT-EXAMINER: Raymond; Edward

ATTY-AGENT-FIRM: Amin; Himanshu S. Walbrun; William R. Gerasimow; Alexander M.

ABSTRACT:

A diagnostics/prognostics system and related method for collecting and processing data relating to a plurality of subsystems of a dynamic system includes a plurality of sensors, each sensor gathering data and generating a data signal indicative of the health of a corresponding one of the subsystems. In addition, the diagnostics/prognostics system includes a plurality of subsystem modules coupled to corresponding ones of the sensors for generating a subsystem health signal in response to corresponding ones of the data signals. Further, a master diagnostics module is coupled to the subsystems to generate an overall system health signal in response to the subsystem health signals. Preferably, the master diagnostics module includes a memory having an embedded model to facilitate generating the overall system health signal and a related trend analysis. Preferably, a controller is used to generate a control signal in response to at least one of a group consisting of the subsystem health signals and the vehicle health signal, the control signal causing an operation parameter of at least one of the subsystems to change. The

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diagnostics/prognostics system is especially well suited for vehicles, but can also be applied to other dynamic systems.

44 Claims, 30 Drawing figures

Previous Doc Next Doc Go to Doc#

Aircraft condition analysis and management system

Legal status (INPADOC) of EP1455313

EPF

04251264 A

(Patent of invention)

PRS Date:

2004/09/08

PRS Code:

AK

Code Expl.:

+ DESIGNATED CONTRACTING

STATES:

KD OF CORRESP. PAT.:

A1

AT BE BG CH CY CZ DE DK EE ES FI FR GB

DESIGNATED COUNTR.: GR HU IE IT LI LU MC NL PL PT RO SE SI SK

TR

PRS Date:

2004/09/08

PRS Code:

AX

Code Expl.:

+ EXTENSION OF THE

EUROPEAN PATENT TO

CONCERNED

COUNTRIES:

AL HR LT LV MK

PRS Date:

2005/05/25

PRS Code:

AKX

Code Expl.:

+ PAYMENT OF DESIGNATION

FEES

PRS Date:

2005/06/30

PRS Code:

REG DE 8566

Code Expl.:

- DESIGNATED COUNTRY DE

NOT LONGER VALID

PRS Date:

2006/01/04

PRS Code:

18D

Code Expl.:

- DEEMED TO BE WITHDRAWN

EFFECTIVE DATE:

20050309



IS Tasks | AR Tasks | P&E Tasks
AR: Previous | Next

On-Board Traverse Science Data Analysis

NASA Jet Propulsion Laboratory
Becky Castano (JPL/MLS)

Abstract

The Mars Science Laboratory (MSL) rover may spend as much as 43% of its mission time moving between science/exploration sites. This research task will develop science data collection, analysis, and prioritization capabilities for this traverse time. In particular, the rover will be able to recognize pre-specified "science alert" spectral signatures, detect novel spectral or image features that are worth logging and storing for their possible scientific interest, and construct a summary catalog of what it has

seen during its traverse. Autonomous reactions to identified science opportunities could include taking an extra image or sensor measurement, changing the rover path to take a contact measurement, or stopping to call back to Earth. For routine observations, the system will use onboard reasoning to summarize and prioritize data for downlink. The techniques will be applicable to other in-situ and orbital missions as well.

Task Description

Objective:

Space probes, orbiters, and Mars rovers lose a lot of science observation time if they have to call back to Earth for instructions. This research subtask is developing on-board data analysis capability so that a science platform can choose what path to follow and what measurements to take in order to maximize its mission success. Capabilities to be developed and integrated include efficient data analysis (e.g., image segmentation, rock characterization); mapping of features to science data priorities; and planning and scheduling to support opportunistic science collection during a rover traverse.

Applications:

Mission science maximization from rovers, probes, etc., with high data-collection capability and limited downlink

communication.

NASA Benefit:

On-board science data analysis can be used to increase the science return on any orbital or in situ exploration mission with fixed downlink bandwidths. This subtask research has direct mission relevance to the Mars Science Laboratory (MSL) and Astrobiology Field Laboratory (AFL) missions, and ground data analysis of Mars Exploration Rovers (MER) data.

Keywords:

rover on-board data analysis, observation prioritization, intelligent traverse, science alerts

Research Plan

Prior Technology:

Pathfinder/Sojourner activities were commanded from Earth, with three sols needed for an approach and contact measurement.

FY04 Milestone:

Science alert demo: stop and call home. Path adjustment to take additional measurements.

Progress

FY04 Quadchart Slide:

AR DIR Castano OnbdAnal.ppt.

Accomplishments:

Grayscale rockfinder; sky detector; interactive rock identification tool (RockIT) for MER; FIDO science alert test; image prioritization.

For More Information

Parent Task:

Intelligent Decision-Making for Autonomous Rover Operations.

Contacts:

Rebecca Castano (PI), <u>JPL Machine</u> <u>Learning Systems Group</u>.

| <u>Planning and Execution</u>

AR: Previous | Next

Responsible NASA Official: Joseph C. Coughlan.
Program Support: <u>Kenneth I. Laws</u>. / Updated: 29-Nov-2004
Mail Stop 269-3, NASA Ames Research Center,
Moffett Field, CA 94035-1000

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